

ABSTRACT

METHOD FOR EQUITABLE RESOURCE SHARING
BETWEEN LOCAL AND NETWORK FILESYSTEMS

Computing resources shared by local and network filesystems may be used to maximum capacity by a single application, or equitably shared by multiple applications under heavy load. A portion of the resources are set aside for local filesystem use and a small number is reserved for each network filesystem. The remaining resources may be used by either local or network filesystems. An enforcement limit puts a ceiling on the number of resources that can be used by a single network filesystem. When the enforcement limit is applied to a filesystem, the number of executing resource acquisition requests from that filesystem is reduced, by completion of the requests, to the reserved number of resources for that filesystem before any more resources acquisition requests from that filesystem are executed.